٠. حَبْ	in Part - Sanitized Copy Approved for Release 2011/11/14 : C CENTRAL INTELLIGENCE AGENCY	REPORT	
	INFORMATION REPORT	50X1-HUM	
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	KTB-21		
1.	KTB-21 will be dissolved on 3	50X1-HUM 1 March 1949.	
2.	Some of the members of this Bureau who were trans	ferred from Koch und	
	Sterzel are new returning to their former position of the Bureau are uncertain about their future.	ns. Other employees	
3.	Professor Bambdas was head of KTB-21 from 1945 to	1947. In 1947 he visited	
	the USSR; during his absence the Bureau was headed by a Soviet X-rav specialist, whose name is unknown. When Bambdas returned from his visit		
	in 1947, he became head of the Niederwartha project	ct, working directly under latter part of 1948 Banbdas 50X1-HUM	
	was taken back to Moscow by the MVD and has not be	een heard of since.	
Ly a	The present Soviet head of KTB-21 is Major Barsly, who is an ardent Com-		
	the Niederwartha project.	so taken over control of	
5.	The following are employed at present by the Bures	au;	
	a. Dipl. Ing. Stejskal* - German head of the Bure	eau under Barsky.	
	b. Obering, Behrmann - Former head of the constru Koch und Sterzel. Behrmann has been writing a	action department at	
	on the construction of medium and large transf	formers.	
	c. Dr. Winter - In 1948 he was responsible for the construction of a small rheotron in the workship.	ne theory and successful	
	in the same building as its offices). He work	ed on the principles of	
	Prof. Bicht (sic, Picht?) of Berlin. d. Ing. Zirkel = Head constructor.		
*			
	e. Chering. Brey.	•	
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e for the completion of

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- f. Ing. Richard Gussmann Betriebsleiter responsible for the completion of apparatus. Formerly Betriebsleiter of Koch und Sterzel, specially transferred because of his great ability.
- g. Dipl. Ing. Schnuhr.
- h. Dipl. Ing. Koettnitz Part-time worker, has designed an X-ray apparatus for investigation of materials with a capacity of 200 KV. This has been built and tested in the Bureau's workshops and accepted by Moscow. An apparatus with a capacity of 400 KV is being tested, and it is hoped soon to produce one of 800 KV capacity.
- i. Von Schiesszel Engineer in charge of testing.
- i. Kosmar Head of the workshop.
- k. Schurich Senior fitter.
- 1. A small number of very highly skilled glass-blowers formerly of Siemens, Rudolstadt.

Moch und Sterzel

- 6. The principle lines of research and development at Koch und Sterzel are "Strom und Spannungswandler" (current transformer and potential transformer) up to capacities of 220 KV, small regulating transformers for voltage control, all sizes of transformers for reperations, and medical X-ray apparatus.
- 7. In conjunction with KTB-21, current and voltage transformers of 440 KV are being developed. A similar development is taking place in AEG, Berlin, under the direction of a Soviet specialist, Aronovich. These are required for the 440 KV connecting system in the Ural industrial areas.
- 8. A transformer of 250 KVA/500 KV has already been produced by Koch und Sterzel, and an experimental high tension transformer, 450 KVA/750 KV single-phase, could be produced there.
- 7. The lack of good transformer sheet-metal is causing a serious bottleneck in production, since it is no longer available . Former standards required a loss of only 1.1 W/kg, but now the best that can be obtained from Upper Silesian and Czechoslovak sheet has a loss of 1.8 W/kg.

 Transformer oil is still obtained from the Netherlands.**
- 10. Personalities at Koch und Sterzel include the following:
 - a. Either***- Head of the firm.
 - b. Jaha Head of the business department.
 - c. Dr. Stamm Technical head.
 - d. Dr. Clausnitzer Head of laboratory.
 - e. Dunkel In charge of construction.

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	f. Ing. Tesch - Specialist for heavy-load switches; Tesch recently material to Moscow to help overcome some technical difficulties. His trip, however, was very unsuccessful, since the Soviets, for securing reasons, allowed him to see only the switches as finished products did not permit him to visit the factories where they are made. Whi in the USSR, Tesch was able to visit F.J. Fischer, formerly manager Koch und Sterzel Transformer Works, and Head Constructor of KTB-21 he left Germany.	ity and Lla		
11.	The apparatus in the former turbine shed of the dismantled Niederwartha pumping station is fed from a normal electricity net of 50 cycles. Its purpose is the generation of a very high DC voltage by means of "Glithka-thodenventilen" (glow-cathode valves). The planned operation is three million volts at 30 m A.			
12,	Serious difficulties have been encountered and the most that the apparatus has so far achieved is 1.6 million volts at 3 m A. One of the main reasons for this is that the site chosen for its erection is extremely damp; consequently, the hard paper pillars (Hartpapiersaule), which were intended both to support it and to insulate it from the ground, only partially fulfill the latter function.			
13.	Counter measures being taken at present are the installation of coke ovens to dry the atmosphere and pillars, and the construction of porcelain supports (in a factory near Meiningen) which are to replace the paper ones as soon as possible.			
14.	Because of Soviet demands, far tocomuch experimenting and testing is go on, with the result that even if the planted capacity is ever attained, operational life will already have been largely consumed when the apparais finally handed over to the Soviets.	110		
15.	The weakest part of the apparatus is its accelerating tube (Beschleunigungrohr), the design of which was based on the calculations of Eiselt, who is now believed to be employed at Siemens in Erlangen.			
16.	A Soviet commission of experts is expedted to visit Niederwartha to inspethe apparatus.	pect		
	Corment: Probably identical with Steska.	50X1-HUM		
	Comment: Some good sheet metal was recently purchased from the So and it was discovered to be part of a reparations shipment taken to the USSR after the war.	viets		
	Correct: Probably identical with Bruno Eidner.	50X1-HUM		

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